

**KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1125****Specification****KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P46940</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 189 kDa; observed, 195 kDa
Gene Name	KDa
Aliases	<b>IQGAP1</b> <b>IQGAP1; IQ Motif Containing GTPase</b> <b>Activating Protein 1; P195; HUMORFA01;</b> <b>KIAA0051; SAR1; Ras</b> <b>GTPase-Activating-Like Protein IQGAP1;</b> <b>RasGAP-Like With IQ Motifs</b>
Immunogen	<b>A synthesized peptide derived from human</b> <b>IQGAP1</b>

**KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	8826
<b>Other Names</b>	
Ras GTPase-activating-like protein IQGAP1, p195, IQGAP1, KIAA0051	

**KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody - Protein Information****Name** IQGAP1**Synonyms** KIAA0051**Function**

Plays a crucial role in regulating the dynamics and assembly of the actin cytoskeleton. Recruited to the cell cortex by interaction with ILK which allows it to cooperate with its effector DIAPH1 to locally stabilize microtubules and allow stable insertion of caveolae into the plasma membrane (By similarity). Binds to activated CDC42 but does not stimulate its GTPase activity. Associates with calmodulin. May promote neurite outgrowth (PubMed:<a href="http://www.uniprot.org/citations/15695813" target="\_blank">15695813</a>). May play a possible role in cell cycle regulation by contributing to cell cycle progression after DNA replication arrest (PubMed:<a href="http://www.uniprot.org/citations/20883816" target="\_blank">20883816</a>).

**Cellular Location**

Cell membrane. Nucleus. Cytoplasm. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9JKF1}.  
Apical cell membrane. Basolateral cell membrane {ECO:0000250|UniProtKB:Q9JKF1}.

Note=Subcellular distribution is regulated by the cell cycle, nuclear levels increase at G1/S phase (PubMed:20883816).

### Tissue Location

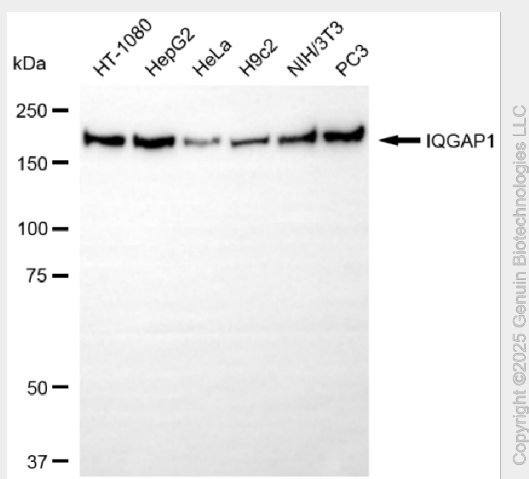
Expressed in the placenta, lung, and kidney (PubMed:8051149). A lower level expression is seen in the heart, liver, skeletal muscle and pancreas (PubMed:8051149)

### KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody - Protocols

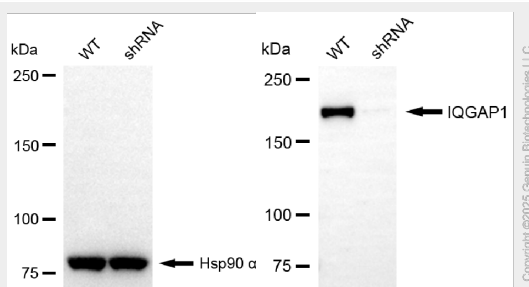
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-IQGAP1 Rabbit Monoclonal Antibody - Images

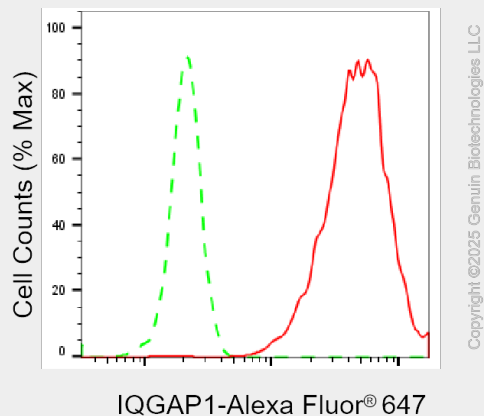


Western blotting analysis using anti-IQGAP1 antibody (Cat#AGI1125). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-IQGAP1 antibody (Cat#AGI1125, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.

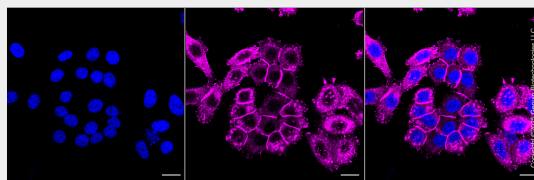


Western blotting analysis using anti-IQGAP1 antibody (Cat#AGI1125). IQGAP1 expression in wild-type (WT) and IQGAP1 shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates.

Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-IQGAP1 antibody (Cat#AGI1125, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of IQGAP1 expression in HepG2 cells using IQGAP1 antibody (Cat#AGI1125, 1:2,000). Green, isotype control; red, IQGAP1.



Immunocytochemical staining of HepG2 cells with IQGAP1 antibody (Cat#AGI1125, 1:1,000). Nuclei were stained blue with DAPI; IQGAP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20  $\mu$ m.